

# Material: AS 1030

## Standard Specification for Carbon Steels and Carbon Manganese Steels

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** AS 1030 Carbon Steels and Carbon Manganese Steels

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Bar, Wire, Tube and Forging

Chemical Composition		
Carbon	C %	0.280 - 0.340
Silicon	Si %	0.100 - 0.350
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	0.300 max.
Nickel	Ni %	0.350 max.
Molybdenum	Mo %	0.100 max.
Copper	Cu %	0.350 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As- Cast or Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	470 - 520
Yield Strength in Mpa	260 min.
Elongation in %	12 min.
Reduction of Area in %	35 - 42
Hardness in HB	137 - 149
Impact in Joule	36.9 - 52.3 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J03012	UNS	USA	Casting
1025	AISI	USA	Bar, Wire, Tube and Forging
1030	SAE	USA	Bar, Wire, Tube and Forging
1030	AMS	USA	Bar, Wire, Tube and Forging
A915 Grade SC 1030	ASTM	USA	Casting
-	-	-	-
-	-	-	-

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